OCS-S1
High Resolution Digital Crane Scale

User's Guide

Content

Version: V1.0A-2

Please read this manual carefully before using.

1. Safety Guide

For good performance and precise measurement, be careful with daily operation and maintenance.

- ⓘ Do NOT overload scale. This will damage loadcell and void warranty.
- ⓘ Do NOT leave load hung on the scale for long. This will decrease scale's accuracy and shorten loadcell's life.
- ⓘ Inspect shackle and hook before using. Check clips, pins and screws regularly.
- ⓘ Check battery frequently. When scale runs out of power, replace the dead batteries with new ones.
- ⓘ Rotate load rather than scale if needed.
- ⓘ Do NOT use scale under thunder or rain.
- ⓘ Hang scale on shelf in dry and well-ventilated room. Do NOT place scale on the ground directly.
- ⓘ Do NOT attempt to repair scale yourself. Contact your local representative.

2. Features

This scale is a combination of sound and proven mechanical design, with today's most advanced electronics to provide a superb feature set. It is versatile, reliable, accurate and easy to operate.

- ☑ **Superb Quality**. Strictly in accordance with OIML R76, Chinese GB/T11883-2002 national standards, and European CE directives.
- ☑ **Great Safety**. Aluminum-casting case, high firm hook and shackle, dedicated weighing loadcell for safety installation.
- ☑ **Strong Reliability**. Cutting-edge technology, quality integrated

circuit for high performance and long-time stability.

☑ **Broad Applicability**. Popular and applicable in storage, textile, metallurgy industry, and so forth.

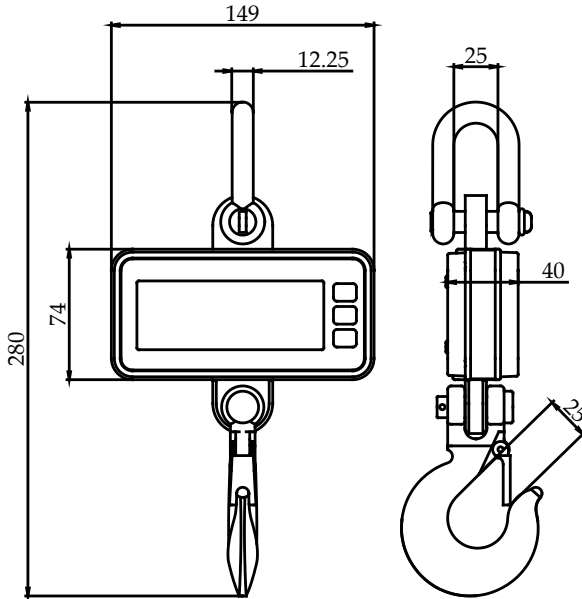☑ **Complete Function**. Resolution switch, unit conversion, auto power-off, battery inspection, etc.

3. Specifications

Accuracy	Chinese GB/T 11883-2002 CIII eqv. OIML R76
Tare Range	100% F.S.
Auto Zero	±20% F.S.
Manual Zero	±4% F.S.
Stable Time	≤10sec
Overload	100% F.S. + 9e
Safety Load	120% F.S.
Ultimate Load	400% F.S.
Battery	4*AA 1.5V batteries
Battery Life	≥25hour (tested by dedicated batteries)
Display	25.4mm (1inch) ultra-bright LED
Op. Temp.	-10℃ ~ +40℃
Op. Humidity	20℃ ≤90%

4. Capacity

Modal	Max. Cap.	Min. Cap.	Res.	Division
OCS-01-S	100kg	1kg	0.05kg	2,000
OCS-02-S	200kg	2kg	0.1kg	2,000
OCS-03-S	300kg	2kg	0.1kg	3,000
OCS-05-S	500kg	4kg	0.2kg	2,500
OCS-1-S	1,000kg	10kg	0.5kg	2,000

5. Dimension & Weight

6. Display & Keys

Scale Keys

Key	Name	Function
On/Off	On/Off	Short pressing: Cancel & return to weighing mode
		Long pressing: Power-on / Power-off
Tare	Tare	Short pressing: Tare in/out; Increase digit
		Long pressing: Zero; Move digit

	Hold	Short pressing: Lock/unlock; Confirm & next Long pressing: Unit Switch; Input / cancel decimal point

Remote Keys

Key	Name	Function
	Zero	Same as long pressing
	Tare	Same as short pressing
	Hold	Same as short pressing
	Acc.	Accumulate weight Decrease flashing digit
	Del.	Delete last weight Clear all weight Left scroll flashing digit
	F1	View Input / cancel decimal point
	F2	Unit Switch
	Off	Long press to power off Return to weighing mode
	2nd	2nd function

Indicators

LED	Name	Note
STB.	Stable	lit when weight is stable
ZERO	Zero	lit when weight is at zero
TARE	Tared	lit when scale is tared

HOLD	Hold	lit when scale is locked
lb	lb	lit when unit is lb
kg	kg	lit when unit is kg

Message

Message	Stand for	Note
- - - - -		detect weight
SEtUP	SETUP	User Setup Menu
bAt99	BATtery	battery life percentage
End	END	save and exit
oFF	OFF	power off
ouEr	OVERload	overloading
Err	ERRor	invalid operation
ACC	ACCumulate	accumulate weight
dEL	DELete	delete last weight
CLr	CLeaR	delete all weight

7. Operations

Power On/Off

☑ Long press 🔘 to power-on scale. Scale perform initialization
and power-on test, **8.8.8.8.8.** shows twice, then capacity
1000 shows, battery life percentage **bAt99** shows,
weight detection - - - - - shows and then auto zero.

✍ For information about Auto-Zero, refer to Scale Configuration in
Technical Manual.

☑ Long press 🔘 or 🔘 to power-off scale. Battery life
percentage **bAt99** shows, off message **oFF** shows, and

then cut off power.

↻ When 3 batteries voltage is lower than 3.2V, scale will auto power-off itself. Please replace the dead batteries with new ones.

Zero

☑ Long press ⬛ , or press ⌂ , to zero. **ZERO** shows.

ⓘ If load is in motion, or tared, or out of Manual-Zero Range, Err shows.

↻ For information about Manual-Zero Range, refer to Scale Configuration in Technical Manual.

Tare In/Out

☑ In gross mode, press ⬛ , or press ▷ , to tare in. **TARE** shows.

ⓘ If load is in motion, or negative, or out of Tare Range, Err shows.

⬚ Tare will reduce the apparent overload range of scale. For example, if a 500*0.2kg scale has a 100kg container as its tare, the scale will overload at a new weight of 401.8kg (500 – 100 + additional 9 divisions).

☑ In net mode, press ⬛ , or press ▷ , to tare out. **TARE** disappears.

Lock/Unlock

☑ Press ⬛ or ☐ to lock screen. **HOLD** shows.

☑ Press ⬛ or ☐ again to unlock screen. **HOLD** disappears.

Accumulate

☑ Press ⬠ to accumulate current weight.

⌜⌝ RCC shows, indicating weight is accumulated. Scale uses displayed weight, so gross or net weight is added into the same accumulator.

ⓘ   If load is in motion, or negative, or does not return to zero before, Err shows.

▨▨▨▨▨▨ **View**

☑   Press 🖳 to enter View mode.

⌜⌝   Display flashes accumulated weight.

☑   Press 🔲(HOLD/UNIT) or 🔲 to view high 5-digit or low 5-digit.

☑   Press ⏻ or 🖳 to exit View mode.

▨▨▨▨▨▨ **Delete Last Weight**

☑   Press ◁▢ to delete last accumulated weight.

⌜⌝ dEL shows, indicating last accumulated weight is deleted. Delete function only deletes the last weight.

ⓘ   If last accumulated weight has been deleted, Err shows.

▨▨▨▨▨▨ **Clear All Weight**

☑   Press 🖳△ first and then press ◁▢ to clear all accumulated weight.

⌜⌝ CLr shows, indicating all weight is cleared.

▨▨▨▨▨▨ **Unit Switch**

☑   Long press 🔲(HOLD/UNIT) or press 🖳 , to switch unit in between kg, lb, and User Unit.

⌜⌝   When unit is kg, **kg** shows. When unit is lb, **lb** shows.

⌜⌝   For more information about User Unit, refer to Scale Configuration in Technical Manual.

8. User Setup

☑ Press ⬚ first and then press 🔲HOLD/UNIT or 🔲 to enter User Setup menu. **5EtUP** shows.

Auto-Off Timing

☑ Press 🔲HOLD/UNIT or 🔲 to enter Auto-Off Timing. **oFF- -** shows.

☑ Press 🔲TARE/ZERO or press ⬠ or ⬡ , to change timing value.

✍ Auto-Off Timing can be set to: **0** (disabled), **5** (5min), **10** (10min), **15** (15min), **30** (30min), **60** (60min). It is disabled by default.

⬚ Auto-Off function maximizes scale's battery life against people's carelessness not to power off scale when it's not working.

⬚ Auto-Off starts countdown timer when there's no action or load is stable. Any key pressing or motion in load restarts countdown timer.

Display Brightness

☑ Press 🔲HOLD/UNIT or 🔲 to enter Display Brightness. **br   -** shows.

☑ Press 🔲TARE/ZERO or press ⬠ or ⬡ , to change brightness value.

✍ Display Brightness can be set to: **oFF** (disabled), **1** (dim), **2** (normal), **3** (bright).

⬚ Dim display brightness saves battery power dramatically.

Idle Mode Timing

☑ Press 🔲HOLD/UNIT or 🔲 to enter Idle Mode Timing. **IdL- -** shows.

☑ Press 🔲TARE/ZERO or press ⬠ or ⬡ , to change timing value.

✍ Idle Mode Timing can be set to: **0** (disabled), **5** (5sec), **10** (10sec), **15** (15sec), **30** (30sec), **60** (60sec). It is 30sec by

default.

☐ To maximize battery life, scale automatically enters Idle Mode, when there's no action or the load is stable. In Idle Mode, scale works in low-power consumption status. Any key pressing or motion in load wakes up scale from Idle Mode.

☑ Press [HOLD UNIT] or ☐ to exit User Setup.

9. Battery Maintenance

To maximize battery life, please note the following battery maintenance guide.

ⓘ This scale is powered by a 4 AA 1.5V batteries.

ⓘ Battery houses at the rear of scale can be opened by screwing off screws.

ⓘ Depending on display brightness and idle mode setting, normally, battery works over 25 hours.

ⓘ In order to conserve battery life, enable Auto-Off and Idle Mode, dim display brightness.

ⓘ When 4 batteries voltage is lower than 3.5V, scale will auto power-off itself. Please replace the dead batteries with new ones.

10. Troubleshooting

Simple problems can be resolved as below listed solution. If problems still exist, please contact your local representative.

Symptom	Possible Cause	Suggested Solution
not power-on after ⏻ is pressed	discharged / defective battery	check battery and replace
	defective On/Off key	press harder and keep pressing for 2s

	defective power cable	open front panel, check power cable
	defective mainboard	contact representative
display flashes	discharged battery	replace battery
no action taken after key pressed	scale is disturbed	re-plug power cable
	defective key	contact representative
weight reading not stable	load in motion	keep load stable
	weak Anti-Motion	change Anti-Motion level
	damped loadcell or mainboard	dry loadcell or mainboard
	defective mainboard	contact representative
weight reading not zero when no load	discharged battery	replace battery
	loadcell stressed too long	hang scale in storage
	loadcell drifts	contact representative
large error in weight reading	scale not zeroed before applying load	Manual Zero scale before loading
	wrong unit	switch to correct unit
	require calibration	calibrate scale
	defective loadcell or mainboard	contact representative